

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Southwestern Public Service Company

AUTHORIZING THE OPERATION OF

Harrington Station Power Plant
Electric Services

LOCATED AT

Potter County, Texas

Latitude 35° 17' 50" Longitude 101° 44' 54"

Regulated Entity Number: RN100224849

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site, emission units and affected source listed in this permit. Operations of the site, emission units and affected source listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site, emission units and affected source authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site, emission units and affected source.

Permit No: O15 Issuance Date: November 22, 2011

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. The permit holder shall comply with the applicable requirements of 40 CFR Part 63 Subpart UUUUU and 30 TAC Chapter 113, Subchapter C, § 113.1300 for UNIT 1, UNIT 2, and UNIT 3, by April 16, 2016. This is a one year extension of the compliance date granted in accordance with § 63.6(i)(4)(i)(A). The permit holder shall comply with the emission control installations, compliance schedule, and notification requirements contained in the Alternative Requirements attachment of this permit. The permit holder shall maintain the original documentation from the TCEQ Executive Director granting the compliance extension. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.
 - F. Emission units subject to 40 CFR Part 63, Subpart UUUUU as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1300 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

- G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
 - B. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
 - C. Permit holder shall comply with the following requirements for steam generators:
 - (i) Emissions from any solid fuel-fired steam generator may not exceed 0.3 pound of TSP per MMBtu of heat input, averaged over a two-hour period, as required in 30 TAC § 111.153(b) (relating to Emissions Limits for Steam Generators).
 - D. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)

- (iii) Title 30 TAC § 111.211 (relating to Exception for Prescribed Burn)
 - (iv) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (v) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

Additional Monitoring Requirements

- 6. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
 - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the

requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

- C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.
7. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

8. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
- A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield

9. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
10. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144.
 - A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
 - B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
11. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
 - A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
 - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
 - C. Applicable requirements of 30 TAC § 116.617 for Pollution Control Projects based on the information contained in the registration application
 - D. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects.

Compliance Requirements

12. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed

12 months and the certification must be submitted within 30 days after the end of the period being certified.

13. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Protection of Stratospheric Ozone

14. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone.
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are

performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Temporary Fuel Shortages (30 TAC § 112.15)

15. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:
 - A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)
 - B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)
 - C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)
 - D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

Permit Location

16. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

17. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Acid Rain Permit Requirements

18. For UNIT 1, UNIT 2, and UNIT 3 (identified in the Certificate of Representation as Units 061B, 062B and 063B), located at the site identified by ORIS/Facility code 6193, located at the affected source identified by ORIS/Facility code (insert the ORIS/Facility ID), the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.

A. General Requirements

- (i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.
- (ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.
- (iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.
- (iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.
- (v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring Requirements

- (i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained 40 CFR Part 75.
- (ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for SO₂ and NO_x under the ARP.
- (iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

C. SO₂ emissions requirements

- (i) The owners and operators of each source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for SO₂.
- (ii) As of the allowance transfer deadline the owners and operators of the affected source and each affected unit at the source shall hold, in the unit's compliance subaccount, allowances in an amount not less than the total annual emissions of SO₂ for the previous calendar year.
- (iii) Each ton of SO₂ emitted in excess of the acid rain emissions limitations for SO₂ shall constitute a separate violation of the FCAA amendments.
- (iv) An affected unit shall be subject to the requirements under (i) and (ii) of the SO₂ emissions requirements as follows:
 - (1) Starting January 1, 2000, an affected unit under 40 CFR § 72.6(a)(2); or
 - (2) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR § 72.6(a)(3).
- (v) Allowances shall be held in, deducted from, or transferred into or among Allowance Tracking System accounts in accordance with the requirements of the ARP.
- (vi) An allowance shall not be deducted, for compliance with the requirements of this permit, in a calendar year before the year for which the allowance was allocated.
- (vii) An allowance allocated by the EPA Administrator or under the ARP is a limited authorization to emit SO₂ in accordance with the ARP. No provision of the ARP, Acid Rain permit application, this Acid Rain Permit, or an exemption under 40 CFR §§ 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (viii) An allowance allocated by the EPA Administrator under the ARP does not constitute a property right.

D. NO_x Emission Requirements

- (i) The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for NO_x under 40 CFR Part 76.
- E. Excess emissions requirements for SO₂ and NO_x.
 - (i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
 - (ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:
 - (1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.
 - (2) Comply with the terms of an approved offset plan.
- F. Recordkeeping and Reporting Requirements
 - (i) Unless otherwise provided, the owners and operators of the affected source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the EPA Administrator.
 - (1) The certificate of representation for the designated representative for the source and each affected unit and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR § 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.
 - (2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping (rather than a five-year period cited in 30 TAC § 122.144), the 3-year period shall apply.
 - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the ARP or relied upon for compliance certification.

- (4) Copies of all documents used to complete an acid rain permit application and any other submission under the ARP or to demonstrate compliance with the requirements of the ARP.
- (ii) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the ARP including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75.

G. Liability

- (i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).
- (ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.
- (iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.
- (iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.
- (v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.
- (vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and 40 CFR § 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.
- (vii) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or

operator or DR of such source or unit, shall be a separate violation of the FCAA Amendments.

- H. Effect on other authorities. No provision of the ARP, an acid rain permit application, an acid rain permit, or an exemption under 40 CFR §§ 72.7 or 72.8 shall be construed as:
- (i) Except as expressly provided in Title IV of the FCAA Amendments, exempting or excluding the owners and operators and, to the extent applicable, the DR of an affected source or affected unit from compliance with any other provision of the FCAA Amendments, including the provisions of Title I of the FCAA Amendments relating to applicable National Ambient Air Quality Standards or State Implementation Plans.
 - (ii) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the FCAA Amendments.
 - (iii) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law.
 - (iv) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
 - (v) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.
- I. The number of SO₂ allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

Clean Air Interstate Rule Permit Requirements

19. For UNIT 1, UNIT 2, and UNIT 3 (identified in the Certificate of Representation as Units 061B, 062B, and 063B), located at the site identified by ORIS/Facility code 6193, the designated representative and the owner or operator, as applicable, shall comply with the following Clean Air Interstate Rule (CAIR) Permit requirements. Until approval of the Texas CAIR SIP by EPA, the permit holder shall comply with the equivalent requirements of 40 CFR Part 97 in place of the referenced 40 CFR Part 96 requirements in the Texas CAIR permit and 30 TAC Chapter 122 requirements.

- A. General Requirements

- (i) Under 30 TAC § 122.420(b) and 40 CFR §§ 96.120(b) and 96.220(b) the CAIR Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP).
- (ii) The owners and operators of the CAIR NO_x and the CAIR SO₂ source shall operate the source and the unit in compliance with the requirements of this CAIR permit and all other applicable State and federal requirements.
- (iii) The owners and operators of the CAIR NO_x and the CAIR SO₂ source shall comply with the General Terms and Conditions of the FOP that incorporates this CAIR Permit.
- (iv) The term for the initial CAIR permit shall commence with the issuance of the revision containing the CAIR permit and shall be the remaining term for the FOP that incorporates the CAIR permit. Renewal of the initial CAIR permit shall coincide with the renewal of the FOP that incorporates the CAIR permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring and Reporting Requirements

- (i) The owners and operators, and the CAIR designated representative, of the CAIR NO_x source and each CAIR NO_x unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HH.
- (ii) The owners and operators, and the CAIR designated representative, of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HHH.
- (iii) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH and any other credible evidence shall be used to determine compliance by the CAIR NO_x source with the CAIR NO_x emissions limitation.
- (iv) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH and any other credible evidence shall be used to determine compliance by the CAIR SO₂ source with the CAIR SO₂ emissions limitation.

C. NO_x emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account,

CAIR NO_x allowances available for compliance deductions for the control period under 40 CFR § 96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with the requirements of 40 CFR Part 96, Subpart HH.

- (ii) A CAIR NO_x unit shall be subject to the requirements of Paragraph C.(i) of this CAIR Permit starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 96.170(b)(1), (2), or (5).
- (iii) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements of this permit, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.
- (iv) CAIR NO_x allowances shall be held in, deducted from or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FF or Subpart GG.
- (v) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 40 CFR § 96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.
- (vi) A CAIR NO_x allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FF or Subpart GG, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x unit's compliance account is incorporated automatically in this CAIR permit.

D. NO_x excess emissions requirement

- (i) If a CAIR NO_x source emits nitrogen oxides during any control period in excess of the CAIR NO_x emissions limitation, the owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under 40 CFR § 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.

- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable State law.

E. SO₂ emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, CAIR SO₂ allowances available for compliance deductions for the control period under 40 CFR § 96.254(a) and (b) in an amount not less than the tons of total sulfur dioxides emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with the requirements of 40 CFR Part 96, Subpart HHH.
- (ii) A CAIR SO₂ unit shall be subject to the requirements of Paragraph E.(i) of this CAIR Permit starting on the later of January 1, 2010, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 96.270(b)(1), (2), or (5).
- (iii) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements of this permit, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.
- (iv) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FFF or Subpart GGG.
- (v) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 40 CFR § 96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.
- (vi) A CAIR SO₂ allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or Subpart GGG, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ unit's compliance account is incorporated automatically in this CAIR permit.

F. SO₂ excess emissions requirements

- (i) If a CAIR SO₂ source emits sulfur dioxides during any control period in excess of the CAIR SO₂ emissions limitation, the owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under 40 CFR § 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable State law.

G. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source and the CAIR SO₂ source and each CAIR SO₂ unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.
 - (1) The certificate of representation under 40 CFR §§ 96.113 and 96.213 for the CAIR NO_x designated representative for the source and each CAIR NO_x unit and the CAIR SO₂ designated representative for the source and each CAIR SO₂ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5 year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR §§ 96.113 and 96.213 changing the CAIR designated representative.
 - (2) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH and Subpart HHH, provided that to the extent that these subparts provide for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program or relied upon for compliance determinations.
 - (4) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the

CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program.

- (ii) The CAIR designated representative of a CAIR NO_x source and each CAIR NO_x unit at the source and a CAIR SO₂ source and each CAIR SO₂ unit at the source shall submit the reports required under the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program including those under 40 CFR Part 96, Subpart HH and Subpart HHH.
- H. The CAIR NO_x source and each CAIR NO_x unit shall meet the requirements of the CAIR NO_x Annual Trading Program contained in 40 CFR Part 96, Subparts AA through II.
- I. The CAIR SO₂ source and each CAIR SO₂ unit shall meet the requirements of the CAIR SO₂ Trading Program contained in 40 CFR Part 96, Subparts AAA through III.
- J. Any provision of the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program that applies to a CAIR NO_x source or CAIR SO₂ source or the CAIR designated representative of a CAIR NO_x source or CAIR SO₂ source shall also apply to the owners and operators of such source and the units at the source.
- K. Any provision of the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program that applies to a CAIR NO_x unit or CAIR SO₂ unit or the CAIR designated representative of a CAIR NO_x unit or CAIR SO₂ unit shall also apply to the owners and operators of such unit.
- L. No provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, a CAIR permit application, a CAIR permit, or an exemption under 40 CFR §§ 96.105 or 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source or CAIR NO_x unit or a CAIR SO₂ source or CAIR SO₂ unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
UNIT 1	Boilers/Steam Generators/Steam Generating Units	N/A	60-1	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Solid fossil fuel., D-SERIES FUEL TYPE #2 = Gaseous fossil fuel.
UNIT 1	Boilers/Steam Generators/Steam Generating Units	N/A	60-2	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Solid fossil fuel.
UNIT 1	Boilers/Steam Generators/Steam Generating Units	N/A	60-3	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Gaseous fossil fuel.
UNIT 1	Boilers/Steam Generators/Steam Generating Units	N/A	63UUUUU-1	40 CFR Part 63, Subpart UUUUU	No changing attributes.
UNIT 2	Boilers/Steam Generators/Steam Generating Units	N/A	60-1	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Solid fossil fuel., D-SERIES FUEL TYPE #2 = Gaseous fossil fuel.
UNIT 2	Boilers/Steam Generators/Steam Generating Units	N/A	60-2	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Solid fossil fuel.
UNIT 2	Boilers/Steam Generators/Steam Generating Units	N/A	60-3	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Gaseous fossil fuel.
UNIT 2	Boilers/Steam Generators/Steam Generating Units	N/A	63UUUUU-2	40 CFR Part 63, Subpart UUUUU	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
UNIT 3	Boilers/Steam Generators/Steam Generating Units	N/A	60-1	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Solid fossil fuel., D-SERIES FUEL TYPE #2 = Gaseous fossil fuel.
UNIT 3	Boilers/Steam Generators/Steam Generating Units	N/A	60-2	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Solid fossil fuel.
UNIT 3	Boilers/Steam Generators/Steam Generating Units	N/A	60-3	40 CFR Part 60, Subpart D	D-SERIES FUEL TYPE #1 = Gaseous fossil fuel.
UNIT 3	Boilers/Steam Generators/Steam Generating Units	N/A	63UUUUU-2	40 CFR Part 63, Subpart UUUUU	No changing attributes.
1-1	Emission Points/Stationary Vents/Process Vents	N/A	R111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
2-1	Emission Points/Stationary Vents/Process Vents	N/A	R111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
3-1	Emission Points/Stationary Vents/Process Vents	N/A	R111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-VENT	Emission Points/Stationary Vents/Process Vents	1-2, 1-2A, 1-2B, 1-3, 2-2, 2-2A, 2-2B, 2-3, 3-2, 3-2A, 3-2B, 3-3, DFP, WS-N, WS-S	R1111-0001	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
UNIT 1	EU	60-1	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
UNIT 1	EU	60-1	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
UNIT 1	EU	60-1	SO ₂	40 CFR Part 60, Subpart D	§ 60.43(b) § 60.43(c)	When different fossil fuels are burned simultaneously in any combination, the applicable standard (ng/J) shall be determined by proration using the specified formula.	§ 60.45(b)(2) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(c) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
UNIT 1	EU	60-1	NO _x	40 CFR Part 60, Subpart D	§ 60.44(b)	Except as stated in §60.44(c) and (d), when different fossil fuels are burned simultaneously in	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						any combination, the applicable standard is determined by proration using the specified formula.	[G]§ 60.46(b)(5) [G]§ 60.46(c) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary		
UNIT 1	EU	60-2	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
UNIT 1	EU	60-2	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
UNIT 1	EU	60-2	SO ₂	40 CFR Part 60, Subpart D	§ 60.43(a)(2)	On/after the §60.8 tests, no affected facility shall emit gases containing SO ₂ in excess of 520 ng/J heat input (1.2 lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.	§ 60.45(b)(2) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.46(d)(7) ** See Periodic Monitoring Summary		
UNIT 1	EU	60-2	NO _x	40 CFR Part 60, Subpart D	§ 60.44(a)(3)	On/after the §60.8 tests, no affected facility shall emit gases containing NO _x , expressed as NO ₂ , in excess of 300 ng/J heat input (0.7 lb/MMBtu) derived from the specified fuels.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7)	None	None
UNIT 1	EU	60-3	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
UNIT 1	EU	60-3	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
UNIT 1	EU	60-3	SO ₂	40 CFR Part 60, Subpart D	§ 60.40(a)	The affected facility burns fuel (such as only gaseous fuels) that has no specific SO ₂ emission requirements.	§ 60.45(b)(2) § 60.45(b)(4)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
UNIT 1	EU	60-3	NO _x	40 CFR Part 60, Subpart D	§ 60.44(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing NO _x , expressed as NO ₂ , in excess of 86 ng/J heat input (0.2 lb/MMBtu) derived from gaseous fossil fuel.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
UNIT 1	EU	63UUUUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUUUU	§ 63.9981 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUUUU
UNIT 2	EU	60-1	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
UNIT 2	EU	60-1	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.45(g)(1)	None	§ 60.45(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						minute period per hour of not more than 27% opacity.	§ 60.46(a) § 60.46(b)(3) ** See CAM Summary		
UNIT 2	EU	60-1	SO ₂	40 CFR Part 60, Subpart D	§ 60.43(b) § 60.43(c)	When different fossil fuels are burned simultaneously in any combination, the applicable standard (ng/J) shall be determined by proration using the specified formula.	§ 60.45(b)(2) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(c) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
UNIT 2	EU	60-1	NO _x	40 CFR Part 60, Subpart D	§ 60.44(b)	Except as stated in §60.44(c) and (d), when different fossil fuels are burned simultaneously in any combination, the applicable standard is determined by proration using the specified formula.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(c) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
UNIT 2	EU	60-2	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						fossil fuel and wood residue.	§ 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary		
UNIT 2	EU	60-2	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
UNIT 2	EU	60-2	SO ₂	40 CFR Part 60, Subpart D	§ 60.43(a)(2)	On/after the §60.8 tests, no affected facility shall emit gases containing SO ₂ in excess of 520 ng/J heat input (1.2 lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.	§ 60.45(b)(2) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
UNIT 2	EU	60-2	NO _x	40 CFR Part 60, Subpart D	§ 60.44(a)(3)	On/after the §60.8 tests, no affected facility shall emit gases containing NO _x , expressed as NO ₂ , in excess of 300 ng/J heat input (0.7 lb/MMBtu) derived from the specified fuels.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
UNIT 2	EU	60-3	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
UNIT 2	EU	60-3	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
UNIT 2	EU	60-3	SO ₂	40 CFR Part 60, Subpart D	§ 60.40(a)	The affected facility burns fuel (such as only gaseous fuels) that has no specific SO ₂ emission requirements.	§ 60.45(b)(2) § 60.45(b)(4)	None	None
UNIT 2	EU	60-3	NO _x	40 CFR Part 60, Subpart D	§ 60.44(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing NO _x , expressed as NO ₂ , in excess of 86 ng/J heat input (0.2 lb/MMBtu) derived from gaseous fossil fuel.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
UNIT 2	EU	63UUUUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUUUU	§ 63.9981 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUUUU
UNIT 3	EU	60-1	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
UNIT 3	EU	60-1	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
UNIT 3	EU	60-1	SO ₂	40 CFR Part 60, Subpart D	§ 60.43(b) § 60.43(c)	When different fossil fuels are burned simultaneously in any combination, the applicable standard (ng/J) shall be determined by proration using the specified formula.	§ 60.45(b)(2) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(c) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary		
UNIT 3	EU	60-1	NO _x	40 CFR Part 60, Subpart D	§ 60.44(b)	Except as stated in §60.44(c) and (d), when different fossil fuels are burned simultaneously in any combination, the applicable standard is determined by proration using the specified formula.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(c) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
UNIT 3	EU	60-2	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
UNIT 3	EU	60-2	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
UNIT 3	EU	60-2	SO ₂	40 CFR Part 60, Subpart D	§ 60.43(a)(2)	On/after the §60.8 tests, no affected facility shall emit gases containing SO ₂ in excess of 520 ng/J heat input (1.2 lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.	§ 60.45(b)(2) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
UNIT 3	EU	60-2	NO _x	40 CFR Part 60, Subpart D	§ 60.44(a)(3)	On/after the §60.8 tests, no affected facility shall emit gases containing NO _x , expressed as NO ₂ , in excess of 300 ng/J heat input (0.7 lb/MMBtu) derived from the specified fuels.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7)	None	None
UNIT 3	EU	60-3	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						fossil fuel and wood residue.	§ 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary		
UNIT 3	EU	60-3	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) [G]§ 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
UNIT 3	EU	60-3	SO ₂	40 CFR Part 60, Subpart D	§ 60.40(a)	The affected facility burns fuel (such as only gaseous fuels) that has no specific SO ₂ emission requirements.	§ 60.45(b)(2) § 60.45(b)(4)	None	None
UNIT 3	EU	60-3	NO _x	40 CFR Part 60, Subpart D	§ 60.44(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing NO _x , expressed as NO ₂ , in excess of 86 ng/J heat input (0.2 lb/MMBtu) derived from gaseous fossil fuel.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
UNIT 3	EU	63UUUUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUUUU	§ 63.9981 The permit holder shall comply with the applicable limitation, standard and/or equipment specification	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63,	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUUUU

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					requirements of 40 CFR Part 63, Subpart UUUUU		Subpart UUUUU		
1-1	EP	R111-1	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2) ** See CAM Summary	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
2-1	EP	R111-1	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2) ** See CAM Summary	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
3-1	EP	R111-1	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2) ** See CAM Summary	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
GRP-VENT	EP	R1111-0001	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

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CAM Summary

Unit/Group/Process Information	
ID No.: 1-1	
Control Device ID No.: ESP-1	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except that one six minute period per hour up to 6 hours in ten days	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: 2-1	
Control Device ID No.: BH 2	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except that one six minute period per hour up to six hours in ten days	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: 3-1	
Control Device ID No.: BH 3	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except that one six minute period per hour up to six hours in ten days	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: ESP 1	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: ESP-1	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: ESP-1	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: EPS-1	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: ESP-1	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: ESP-1	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: BH2	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: BH2	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: BH2	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: BH2	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: BH2	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: BH2	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: BH3	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: BH3	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: BH3	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: BH3	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: BH3	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: BH3	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 20% opacity, except for one six-minute period per hour of not more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-VENT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-0001
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per quarter	
Averaging Period: 6 minutes	
Deviation Limit: Visible emissions > 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded during each calendar quarter unless the emission unit is not operating for the entire quarter. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emission observations.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: SO ₂	Main Standard: § 60.43(a)(2)
Monitoring Information	
Indicator: Stack SO ₂ rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 1.2 lb SO ₂ /MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of sulfur dioxide (SO₂) in the exhaust stream with a continuous emission monitoring system (CEMS). The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: SO ₂	Main Standard: § 60.43(b)
Monitoring Information	
Indicator: Stack SO ₂ rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 1.2 lb SO ₂ /MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of sulfur dioxide (SO₂) in the exhaust stream with a continuous emission monitoring system (CEMS). The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: NO _x	Main Standard: § 60.44(a)(1)
Monitoring Information	
Indicator: Stack NO _x rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 0.20 lb NO _x (expressed as NO ₂)/MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of nitrogen oxide in the exhaust stream with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: NO _x	Main Standard: § 60.44(b)
Monitoring Information	
Indicator: Stack NO _x rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: When multiple fuels are burned simultaneously, maximum NO _x concentration is determined by proration using the formula in 60.44(b)	
<p>Periodic Monitoring Text: Measure and record the concentration of nitrogen oxide in the exhaust stream with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: SO ₂	Main Standard: § 60.43(a)(2)
Monitoring Information	
Indicator: Stack SO ₂ rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 1.2 lb SO ₂ /MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of sulfur dioxide (SO₂) in the exhaust stream with a continuous emission monitoring system (CEMS). The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: SO ₂	Main Standard: § 60.43(b)
Monitoring Information	
Indicator: Stack SO ₂ rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 1.2 lb SO ₂ /MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of sulfur dioxide (SO₂) in the exhaust stream with a continuous emission monitoring system (CEMS). The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: NO _x	Main Standard: § 60.44(a)(1)
Monitoring Information	
Indicator: Stack NO _x rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 0.2 lb NO _x /MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of nitrogen oxide in the exhaust stream with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: NO _x	Main Standard: § 60.44(b)
Monitoring Information	
Indicator: Stack NO _x rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: When multiple fuels are burned simultaneously, applicable standard is determined by proration using the formula in 60.44(b).	
<p>Periodic Monitoring Text: Measure and record the concentration of nitrogen oxide in the exhaust stream with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-2
Pollutant: SO ₂	Main Standard: § 60.43(a)(2)
Monitoring Information	
Indicator: Stack SO ₂ rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 1.2 lb SO ₂ /MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of sulfur dioxide (SO₂) in the exhaust stream with a continuous emission monitoring system (CEMS). The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: SO ₂	Main Standard: § 60.43(b)
Monitoring Information	
Indicator: Stack SO ₂ rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 1.2 lb SO ₂ /MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of sulfur dioxide (SO₂) in the exhaust stream with a continuous emission monitoring system (CEMS). The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-3
Pollutant: NO _x	Main Standard: § 60.44(a)(1)
Monitoring Information	
Indicator: Stack NO _x rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: Maximum concentration = 0.2 lb NO _x /MMBtu	
<p>Periodic Monitoring Text: Measure and record the concentration of nitrogen oxide in the exhaust stream with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UNIT 3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60-1
Pollutant: NO _x	Main Standard: § 60.44(b)
Monitoring Information	
Indicator: Stack NO _x rate	
Minimum Frequency: Four times per hour	
Averaging Period: Three hours	
Deviation Limit: When multiple fuels are burned simultaneously, maximum NO _x concentration is determined by proration using the formula in 60.44(b).	
<p>Periodic Monitoring Text: Measure and record the concentration of nitrogen oxide in the exhaust stream with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be installed and operated in accordance with the requirements of 40 CFR §75.10(b), (d)(1), and (d)(2). All quality assured, valid monitoring data shall be compared to the applicable standard. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

Permit Shield

Permit Shield71

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
UNIT 1	N/A	40 CFR Part 60, Subpart Da	Unit Construction began prior to September 18, 1978
UNIT 1	N/A	40 CFR Part 60, Subpart Db	Unit is not a commercial boiler, and was built prior to June 19, 1981
UNIT 1	N/A	40 CFR Part 60, Subpart Dc	Unit is not a small commercial boiler, and was built prior to June 9, 1989
UNIT 2	N/A	40 CFR Part 60, Subpart Da	Unit Construction began prior to September 18, 1978
UNIT 2	N/A	40 CFR Part 60, Subpart Db	Unit is not a commercial boiler, and was built prior to June 19, 1981
UNIT 2	N/A	40 CFR Part 60, Subpart Dc	Unit is not a small commercial boiler, and was built prior to June 9, 1989
UNIT 3	N/A	40 CFR Part 60, Subpart Da	Unit Construction began prior to September 18, 1978
UNIT 3	N/A	40 CFR Part 60, Subpart Db	Unit is not a commercial, and was built prior to June 19, 1981
UNIT 3	N/A	40 CFR Part 60, Subpart Dc	Unit is not a small commercial boiler, and was built prior to June 9, 1989

New Source Review Authorization References

New Source Review Authorization References 73

New Source Review Authorization References by Emission Unit..... 74

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX017M2	Issuance Date: 05/21/2012
PSD Permit No.: PSDTX631M1	Issuance Date: 02/13/2014
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 108023	Issuance Date: 07/31/2013
Authorization No.: 108024	Issuance Date: 07/31/2013
Authorization No.: 113945	Issuance Date: 05/22/2014
Authorization No.: 114029	Issuance Date: 05/21/2014
Authorization No.: 1388	Issuance Date: 02/13/2014
Authorization No.: 5129	Issuance Date: 05/21/2012
Authorization No.: 93027	Issuance Date: 08/10/2010
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 8	Version No./Date: 06/07/1996
Number: 14	Version No./Date: 11/05/1986
Number: 51	Version No./Date: 11/05/1986
Number: 51	Version No./Date: 05/04/1994
Number: 53	Version No./Date: 11/05/1986
Number: 70	Version No./Date: 11/05/1986
Number: 84	Version No./Date: 11/05/1986

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
1-1	UNIT 1 BOILER STACK	1388, PSDTX631M1
1-2A	UNIT 1 ASH SYSTEM PUMP A DISCHARGE	1388, PSDTX631M1
1-2B	UNIT 1 ASH SYSTEM PUMB B DISCHARGE	1388, PSDTX631M1
1-2	UNIT 1 ASH SILO BIN VENT	1388, PSDTX631M1
1-3	UNIT 1 EMERGENCY GENERATOR	106.511/09/04/2000
2-1	UNIT 2 BOILER STACK	5129, PSDTX017M2
2-2A	UNIT 2 ASH SYSTEM PUMP A DISCHARGE	5129
2-2B	UNIT 2 ASH SYSTEM PUMP A DISCHARGE	5129
2-2	UNIT 2 ASH SILO BIN VENT	5129
2-3	UNIT 2 EMERGENCY GENERATOR	106.511/09/04/2000
3-1	UNIT 3 BOILER STACK	5129, PSDTX017M2
3-2A	UNIT 3 ASH SYSTEM PUMP A DICHARGE	5129
3-2B	UNIT 3 ASH SYSTEM PUMP B DISCHARGE	5129
3-2	UNIT 3 ASH SILO BIN VENT	5129
3-3	UNIT 3 EMERGENCY GENERATOR	106.511/09/04/2000
DFP	DIESEL FIRE PUMP	106.511/09/04/2000
UNIT 1	UNIT 1 BOILER	1388, PSDTX631M1
UNIT 2	UNIT 2 BOILER	5129, PSDTX017M2

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
UNIT 3	UNIT 3 BOILER	5129, PSDTX017M2
WS-N	WELDING SHOP VENT NORTH	106.227/09/04/2000
WS-S	WELDING SHOP VENT SOUTH	106.227/09/04/2000

Alternative Requirement

Alternative Requirement77

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



DM. RECEIVED
JUL 28 2014
ENVIRONMENTAL SERVICES

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Protecting Texas by Reducing and Preventing Pollution

July 22, 2014

MR DEAN METCALF
MANAGER ENVIRONMENTAL SERVICES
SOUTHWESTERN PUBLIC SERVICE COMPANY
PO BOX 1261
AMARILLO TX 79105-1261

Re: Re: Title 40 Code of Federal Regulations Part 63, Subpart UUUUU Compliance Extension
Title V Operating Permit Number: 015
New Source Review Permit Number: 1388
Southwestern Public Service Company
Harrington Station
Amarillo, Potter County
Regulated Entity Number: RN100224849
Customer Reference Number: CN601481336
Account Number: PG-0041-R

Dear Mr. Metcalf

This is in response to your letter dated March 4, 2014, requesting an extension of one year to comply with the particulate matter (PM) limitations in Title 40 Code of Federal Regulations (40 CFR) Part 63, Subpart UUUUU (National Emission Standards for Hazardous Air Pollutants from Coal- and Oil-Fired Electric Steam Generating Units). Based on the information in your letter dated March 4, 2014, the three electric generating units at the Southwestern Public Service Company (SPS) Harrington Station are hereby granted a one year extension from April 16, 2015 to April 16, 2016 to comply with the PM limitations in 40 CFR Part 63, Subpart A and UUUUU.

Item numbers 1 through 4 below are conditions of the compliance extension approval.

Emission Control Installations and Compliance Schedule

1. The following compliance schedule shall be met, as represented in your request for compliance extension to satisfy the requirements of 40 CFR § 63.6(i)(6)(i):
 - (a) SPS Harrington will begin installation of activated carbon injection system for mercury controls in mid-2014.
 - (b) SPS Harrington will complete the activated carbon injection (ACI) system and comply with the mercury emission limits by April 16, 2015. SPS will conduct PM testing and develop a PM averaging plan for Harrington Units 1, 2, and 3 in the third quarter of 2015. SPS will submit the PM averaging plan to those identified below in the notification section of this letter no later than December 16, 2015.
 - (c) Final compliance with the PM standards for Harrington Units 1, 2, and 3 shall be achieved by April 16, 2016.

Mr. Dean Metcalf
Page 2
July 22, 2014

Re: Title V Operating Permit Number: 015

Support for Compliance Schedule

2. SPS proposes an alternate compliance schedule for PM limits based upon receiving a one year extension. The compliance schedule takes into consideration that SPS plans to comply with the PM limits in the Mercury and Air Toxics Standards (MATS) rule by employing an averaging plan for the three Harrington units as allowed in 40 CFR § 63.10009. The MATS rule requires an averaging plan be available for review by the Administrator at least 120 days before implementing the averaging plan. One of the required components of the averaging plan is that performance tests be conducted on each unit that will be included in the averaging plan. These performance tests are used in calculation to demonstrate that units involved in the plan can meet the prescribed limits. SPS is installing ACI systems for mercury removal to help meet the MATS mercury emission limits. The ACI systems must be up and running before PM testing is conducted in order to demonstrate PM performance under normal operating conditions. An extension to comply with the MATS PM limits is justifiable, since the ACI systems on the three units at the Harrington Station cannot be installed and operated with sufficient time remaining to complete the required PM testing and development of an averaging plan that must be made available 120 days before the compliance date of April 16, 2015.

Notification and Other Requirements

3. SPS Harrington shall submit the PM averaging plan to those identified below no later than December 16, 2015.

Air Section Manager
TCEQ Region 1
3918 Canyon Drive
Amarillo, Texas 79109-4933

With Copies To:

Texas Commission on Environmental Quality
Air Permits Division, MC-163
Mr. Erik Hendrickson
P.O. Box 13087
Austin, Texas 78711-3087

U.S. Environmental Protection Agency
Region 6
Attn: Air Permits Section (6PD-R)
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

4. This compliance extension may be terminated, or additional requirements imposed, at any time the TCEQ or EPA determines that SPS Harrington is not making reasonable efforts to comply consistent with the compliance extension.

Pursuant to 40 CFR § 63.6(i)(4)(i)(A), is required to apply for a revision of the affected source's

Mr. Dean Metcalf
Page 3
July 22, 2014

Re: Title V Operating Permit Number: 015

Title V permit (Permit Number 015) to incorporate the conditions of this compliance extension.

The TCEQ appreciates your attention to the changing applicable rule requirements. If you need further information or have any questions, please contact Mr. Erik Hendrickson, P.E. at (512) 239-1095 or write to the TCEQ, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,



Michael Wilson, P.E., Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

MPW/EH/eh

Enclosure

cc: Air Section Manager, Region 1 – Amarillo
Air Permits Section Chief, New Source Review, Section (6PD-R), U.S. Environmental
Protection Agency, Region 6, Dallas

Project Number: 207417

Appendix A

Acronym List	81
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Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC.....	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA.....	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
COMS	continuous opacity monitoring system
CVS.....	closed-vent system
D/FW	Dallas/Fort Worth (nonattainment area)
DR	Designated Representative
ELP	El Paso (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
GF.....	grandfathered
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	hydrogen sulfide
ID No.....	identification number
lb/hr	pound(s) per hour
MMBtu/hr.....	Million British thermal units per hour
MRRT.....	monitoring, recordkeeping, reporting, and testing
NA	nonattainment
N/A.....	not applicable
NADB	National Allowance Data Base
NO _x	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS.....	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PM	particulate matter
ppmv	parts per million by volume
PSD	prevention of significant deterioration
RO	Responsible Official
SO ₂	sulfur dioxide
TCEQ.....	Texas Commission on Environmental Quality
TSP	total suspended particulate
TVP.....	true vapor pressure
U.S.C.	United States Code
VOC	volatile organic compound

Appendix B

Major NSR Summary Table	83
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**Major NSR Summary Table
Harrington Station
Southwestern Public Service Company
Amarillo, Texas**

Permit Number: 1388 and PSDTX631M1, Issued February 13, 2014							
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy (4)			
HS-1	Harrington Station Unit No. 1 369 MW Coal Fired Electric Generating Unit (5)	NO _x	1,452	3,975	4, 7, and 9	7, 9, 14, and 15	7 and 9
		CO	1,634	5,247	4 and 12	12, 14, and 15	12
		SO ₂	4,293	15,080	4, 7, and 11	7, 11, 14, and 15	7 and 11
		PM/PM ₁₀	359	1,257	4, 7, and 10 *	7, 14, 15, and 21	7 and 10 *
		PM _{2.5}	322	1,128	4 and 7	7 and 14	---
		VOC	13.3	58.3	4	14	---
		F (as HF)	19	67.8	4 *	14	*
		Be	0.0111	0.04	4 *	14	*
		HCl	10.4	45.6	4	14	---
HS-2	Harrington Station Unit No. 1 Fly Ash Bin Vent Baghouse	PM	0.17	0.76	6	14	---
		PM ₁₀	0.08	0.36	6	14	---
		PM _{2.5}	0.01	0.05	6	14	---
HS-2A	Ash Handling System Pump A Discharge	PM	0.08	0.36	6	14	---
		PM ₁₀	0.08	0.36	6	14	---
		PM _{2.5}	0.04	0.19	6	14	---
HS-2B	Ash Handling System Pump B Discharge	PM	0.08	0.36	6	14	---
		PM ₁₀	0.08	0.36	6	14	---
		PM _{2.5}	0.04	0.19	6	14	---
MSS-FUG	Maintenance, Startup, and Shutdown Fugitives (6)	NO _x	<0.01	<0.01	24	15, 22, and 23	---
		SO ₂	<0.01	<0.01	24	15, 22, and 23	---
		VOC	33.50	0.42	24	15, 22, and 23	---
		PM	7.39	4.95	24	15, 22, and 23	---
		PM ₁₀	1.91	1.19	24	15, 22, and 23	---
		PM _{2.5}	0.29	0.18	24	15, 22, and 23	---

Notes:

* Performance test performed and reported at time of permit initial issue

- (1) Emission Point Identification - either specific equipment designation or emission point number from plot plan
- (2) Specific Point Source Name. For fugitive, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- F - fluoride
- Be - beryllium
- HF - hydrogen fluoride
- HCl - hydrogen chloride

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The lbs/hour and tpy emission limits specified in the MAERT for this facility include emissions from the facility during both normal and planned MSS activities.

Major NSR Summary Table
Harrington Station
Southwestern Public Service Company
Amarillo, Texas

Permit Number: 5129 and PSDTXX17M2, Issued May 21, 2012							
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	tpy (4)			
2-1	Unit 2 Boiler Stack (6)	NO _x	1,341	3,774	7	7, 9, and 10	7
		CO	1,915	5,033	8	8, 9, and 10	8
		PM ₁₀	383	1,579	9 *	9 and 10	9 *
		VOC	14	56	9	9 and 10	---
		SO ₂	4,602	18,946	7	7 and 10	7
2-2	Unit 2 Ash Handling System Bin Vent	PM ₁₀	0.5	2.2	9	9	---
2-2A	Unit 2 Ash Handling System Pump A Discharge	PM ₁₀	0.046	0.2	9	9	---
2-2B	Unit 2 Ash Handling System Pump B Discharge	PM ₁₀	0.046	0.2	9	9	---
3-1	Unit 3 Boiler Stack (6)	NO _x	1,161	5,085	7	7, 9, and 10	7
		CO	581	2,543	8	9 and 10	---
		PM ₁₀	347	1,520	9 *	9 and 10	9 *
		VOC	55	241	9	9 and 10	---
		SO ₂	4,151	18,181	7	7 and 10	7
3-2	Fly Ash Silo Bin	PM ₁₀	0.34	1.5	9	9	---
3-2A	Unit No. 3 Vacuum Pump Discharge	PM ₁₀	<0.01	<0.04	9	9	---
MSS-FUG2	MSS Fugitives (5)	NO _x	<0.01	<0.01	9 and 17	9 and 16	---
		SO ₂	<0.01	<0.01	9 and 17	9 and 16	---
		VOC	39.00	0.79	9 and 17	9 and 16	---
		PM	8.51	4.97	9 and 17	9 and 16	---
		PM ₁₀	2.45	1.2	9 and 17	9 and 16	---
		PM _{2.5}	0.37	0.18	9 and 17	9 and 16	---

Notes:

* Performance test performed and reported at time of permit initial issue

(1) Emission Point Identification - either specific equipment designation or emission point number from plot plan

(2) Specific Point Source Name. For fugitive sources, use area name or fugitive source name.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s)

and permit application representatives.

(6) The lbs/hour and tpy emission limits specified in the MAERT for this facility include emissions from the facility during both normal and planned MSS activities.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AIR QUALITY PERMIT



A Permit Is Hereby Issued To
Southwestern Public Service Company
Authorizing the Continued Operation of
Harrington Station Power Plant Unit 1
Located near Amarillo, Potter County, Texas
Latitude 35° 17' 50" Longitude 101° 44' 51"

Permits: 1388 and PSDTX631M1

Issuance Date : February 13, 2014

Renewal Date: February 13, 2024


For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC 116.115(b)(2)(B)(iii)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

Special Conditions

Permit Numbers 1388 and PSDTX631M1

1. This permit covers only those sources of emissions listed in the attached table entitled, "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that attached table. This permit authorizes maintenance, startup, and shutdown (MSS) activities which comply with the emission limits in the MAERT.

Operational Limitations

2. The emissions from the Unit No. 1 steam generator stack, Emission Point Number (EPN) HS-1, shall not exhibit an opacity greater than 20 percent (six-minute average), except as allowed under Title 30 Texas Administrative Code (30 TAC) § 111.111(a)(1)(E), Title 40 Code of Federal Regulations (40 CFR) § 60.42(a)(2), or Special Condition No. 16 of this permit.
3. Fuel shall be limited to the following:
 - A. Low sulfur western coal and/or an equivalent coal with properties that will ensure compliance with the permit maximum allowable emission rates as specified by the MAERT.
 - B. Pipeline quality sweet natural gas.
4. In order to determine continuing compliance with the MAERT, the firing rate of Unit No. 1 shall be limited to 3,630 million British thermal units per hour (MMBtu/hr) on an hourly average, based on fuel quality analysis and plant fuel flow monitoring.
5. The emissions of carbon monoxide (CO) from Unit No.1 shall not exceed 0.33 pound per MMBtu, on a 30-day rolling average. This limit does not apply during planned MSS activities.
6. Fly Ash Handling System (EPN HS-2). Fly ash loadout from the ash silo must be into enclosed trucks. A system shall be used to return to the ash silo any particulate dust emissions from the loading operations. Visible emissions from the truck loading operations shall not exceed 10 percent averaged over a six-minute period as measured by 40 CFR Part 60, Appendix A, Test Method 9.

Federal Applicability

7. The facilities shall comply with applicable requirements of EPA regulations in 40 CFR as follows:
 - A. Part 60, Standards of Performance for New Stationary Sources,
 - (1) Subpart A, General Conditions; and
 - (2) Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced after August 17, 1971.
 - B. Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart UUUUU for Electric Utility Steam Generating Units.
 - C. If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Initial Determination of Compliance

8. Initial determination of compliance testing was completed in 1984.

Continuous Determination of Compliance

9. The holder of this permit shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) to measure and record the concentrations of nitrogen oxides (NO_x) and diluent gases (oxygen or carbon dioxide) from EPN HS-1.
 - A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 2, 3, and 6 of 40 CFR Part 60, Appendix B, or an acceptable alternative. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the Texas Commission on Environmental Quality (TCEQ) Air Permits Division in Austin for requirements to be met.
 - B. The holder of this permit shall assure that the CEMS meets the applicable quality-assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative. Relative accuracy exceedances, as

specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime shall be reported to the Director of the TCEQ Amarillo Regional Office, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.

- C. The monitoring data shall be reduced to hourly average concentrations at least once every hour, using a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of the permit allowable emission rate in pounds per hour at least once every hour. Pound per hour data from EPN HS-1 shall be summed monthly to tons per year and used to determine compliance with the annual emissions limits of this permit.
 - D. All monitoring data and quality-assurance data shall be maintained by the source for a period of five years and shall be made available to the TCEQ Executive Director or his designated representative upon request.
 - E. The TCEQ Amarillo Regional Office shall be notified at least 30 days prior to any required relative accuracy test audits in order to provide them the opportunity to observe the testing.
 - F. In lieu of the requirements in Special Condition Nos. 9.A. through 9.E. pertaining to NO_x, the monitoring required by Special Condition No. 9 may be met by the use of a CEMS which will be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendix A. Title 40 CFR Part 75 is deemed an acceptable alternative to the performance specifications and quality-assurance requirements of 40 CFR Part 60.
- 10. The holder of this permit will monitor EPN HS-1 with a continuous opacity monitoring system (COMS), operated in accordance with 40 CFR § 60.13. Opacity readings in excess of the standards outlined in Special Condition No. 2 or No. 16 are reportable under 30 TAC § 101.201, Subchapter F, Division 1, Emissions Event Reporting and Recordkeeping Requirements.
 - 11. The holder of this permit will monitor sulfur dioxide (SO₂) from the exhaust stream of Unit 1 with a CEMS, operated in accordance with 40 CFR § 75.10.
 - 12. Following a period not to exceed 180 days following the October 16, 2010 completion of the NO_x Improvement Project and continuing for a period of five years, the holder of this permit shall annually sample CO in the stack gases from

EPN HS-1. Sampling methods shall be using relevant methods outlined in 40 CFR Part 60, Appendix A, Test Methods 1, 1A, 10, 10A and/or 10B. Alternative sampling methods may be used if approved, prior to testing, by the TCEQ Regional Director. Testing results, in pounds per hour of CO, shall be reported to the TCEQ Regional Director within 30-days following each test.

13. If any emission monitor fails to meet specified performance, it shall be repaired or replaced immediately, but no later than seven days after it was first detected by any employee at the facility, unless written permission is obtained from the TCEQ which allows for a longer repair/replacement time. The holder of this permit shall develop an operation and maintenance program (including stocking necessary spare parts) to ensure that the continuous monitors are available as required.

Recordkeeping

14. The following records shall be kept at the plant for the life of the permit and made available at the request of personnel from the TCEQ, EPA, or any air pollution control agency with jurisdiction.
 - A. A copy of this permit.
 - B. Permit application and subsequent representations submitted to the TCEQ.
 - C. A complete copy of the testing reports and records of the initial performance testing.
 - D. Stack sampling results, other air emissions testing, fuel quality analysis, and plant fuel flow monitoring that may be conducted on units authorized under this permit and subsequent modifications after the October 15, 2002 renewal of this permit.
15. The following records shall be retained for a minimum period of five years and made available at the request of personnel from the TCEQ, EPA, or any air pollution control agency with jurisdiction.
 - A. CEMS and COMS raw data and test results in compliance with Special Condition Nos. 9, 10, and 11.
 - B. Records to identify periods of planned MSS.
 - C. Records of opacity measurements by the COMS for the duration of the planned MSS activities.

- D. Records to show that the work practices in Special Condition No. 21 are followed during the planned MSS activities.

Maintenance, Startup, and Shutdown

- 16. Opacity greater than 20 percent from EPN HS-1 is authorized during planned MSS when the permit holder complies with the duration limitations and applicable work practices as follows.
 - A. The applicable work practices of Special Condition No. 21.
 - B. Periods of opacity greater than 20 percent from EPN HS-1 from planned MSS authorized by this Special Condition shall not exceed 144 hours in a calendar year.
 - C. For periods of MSS other than those subject to Paragraphs A. and B. of this Special Condition, 30 TAC §§ 111.111, 111.153, and 30 TAC § 101, Subchapter F apply.
- 17. This permit authorizes the emissions from the planned MSS activities listed in Attachment A [Inherently Low Emitting (ILE) maintenance activities], Attachment B (non-ILE maintenance activities), and the MAERT attached to this permit.
- 18. When a planned maintenance activity identified in Attachment B is associated with a VOC liquid storage facility and may result in VOC emissions from that facility, the permit holder shall not open that facility to the atmosphere in connection with the planned maintenance activity until the VOC liquids are removed from that facility to the maximum extent practicable.
- 19. No vacuum pump on a vacuum truck that is used to move solids (such as ash) during planned maintenance activities shall be operated unless the vacuum system exhaust is routed to a filtering system.
- 20. Vacuum trucks that are used to move liquids during planned maintenance activities shall utilize submerged loading.
- 21. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility, including the following work practices:

Special Conditions

Permit Numbers 1388 and PSDTX631M1

Page 6

- A. Comply with the boiler and electrostatic precipitator (ESP) manufacturer's operating procedures or the permittee's written standard operating procedures manual during planned MSS and operate in a manner consistent with those procedures to minimize opacity.
 - B. When solid fuel is being burned, place the ESP into service as soon as practical during planned startups, but not longer than the durations identified in Special Condition No. 22, and keep the ESP in service while the unit is burning solid fuel.
 - C. The manufacturer's operating procedures or permittee's written standard operating procedure manual shall be located on-site and be available to the TCEQ regional investigator.
22. Emissions during planned startup and shutdown activities will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows:
- A. A planned startup of the Unit 1 steam generator is defined as the period that begins when a set of fans are placed into service and ends when the unit reaches a sustained load of 150 megawatts. In the event that the fans are already running for maintenance purposes as allowed in Attachment B of this permit, startup begins when main gas firing is commenced. In addition:
 - (1) A planned startup shall not exceed 48 hours after main gas firing has commenced, except as allowed in Special Condition No. 22.A.(2).
 - (2) An extended planned startup is defined as a startup that lasts more than 48 hours after main gas firing has commenced. The total amount of time that extended startups exceed 48 hours shall not exceed 300 hours on an annual basis.
 - B. A planned shutdown of the Unit 1 steam generator shall not exceed 36 hours. A planned shutdown is defined as the period that begins when the generator breaker is opened or at the point of main fuel no longer being fired in the boiler, whichever is earlier. Shutdown ends when the generator breaker is open and main fuel is no longer being fired in the boiler.
 - C. For purposes of counting startup and shutdown hours, any clock hour that includes one or more minutes of startup or shutdown activity is counted as one hour of startup or shutdown activity.

23. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit may be demonstrated as follows:
 - A. For each pollutant emitted during planned ILE maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all planned ILE maintenance activities identified in Attachment A of this permit shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
 - B. For each pollutant emitted during planned non-ILE maintenance activities identified in Attachment B of this permit, the permit holder shall do the following for each calendar month.
 - (1) Determine the total emissions of the pollutant from such non-ILE planned maintenance activities in accordance with Special Condition No. 24.
 - (2) Once monthly emissions have been determined in accordance with Special Condition No. 23.B.(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the sum of the rolling 12-month emissions for the pollutant for all non-ILE planned maintenance activities to the annual emissions limit for the pollutant in the MAERT.
 - (3) This excludes the emissions associated with the combustion unit tuning/optimization activities, which are included in the normal operation emission limits for EPN HS-1 in the MAERT.
24. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 23 as follows:
 - A. For each pollutant whose emissions during normal facility operations are measured with a CEMS that has been certified to measure the pollutant's emissions over the entire range of a planned MSS activity, the permit holder shall measure the emissions of the pollutant during the planned MSS activity using the CEMS.
 - B. For each pollutant not described in Special Condition No. 24.A., the permit holder shall calculate the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and

the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods described in paragraphs 1 through 3 below, provided that the permit holder maintains appropriate records supporting such determination:

- (1) Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.
 - (2) Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
 - (3) Use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
25. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 180 days after issuance of the permit amendment dated April 20, 2012.

Additional Authorizations

26. The following projects and facilities authorized by Permit by Rule (PBR) and Standard Permit (SP) are listed here for reference purposes only.

Project/Facility	Authorization	Registration No.
Fluorescent Bulb Crusher	30 TAC § 106.262 (PBR)	84932
ESP Improvements	Pollution Control Project (SP)	93027
Substitute nat. gas for coal	Pollution Control Project (SP)	108024

Date: February 13, 2014

Permit Numbers 1388 and PSDTX631M1

Attachment A

Inherently Low Emitting Maintenance Activities (ILEs)					
Planned Maintenance Activity	Emissions				
	NO _x	CO	VOC	PM	SO ₂
Miscellaneous particulate filter maintenance ¹				X	
Degassing for maintenance of storage vessels storing material with low vapor pressure (≤ 0.5 psia)			X		
Degassing for maintenance of storage vessels storing gasoline or other materials with high vapor pressure (> 0.5 psia) that does not require clearing the vessel to allow entry of personnel			X		
Boiler General Maintenance ²				X	
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, CEMS, and PEMS	X	X	X		X
Material handling system maintenance ³				X	
Small equipment and fugitive component repair/replacement in VOC service ⁴			X		
PM control device maintenance - unit offline				X	
Management of sludge from pits, ponds, sumps, and water conveyances ⁵			X		

Date: February 13, 2014

¹ Includes, but is not limited to: filters, and coal handling filters.

² Includes, but is not limited: pre-heater basket handling and maintenance, refractory change out, fan maintenance/balancing, damper/air heater/soot blower maintenance, and any other general boiler maintenance that does not exceed the worst-case emission representation in the application.

³ Material handling equipment includes, but is not limited to: silos, transport systems, coal bunkers, coal crushing equipment, coal handling, nuvafeders, hoppers, and sludge handling systems. Materials handled include coal, ash, limestone, soda ash, and lime.

⁴ Includes, but is not limited to: (i) repair/replacement of pumps/compressors/valves/pipes/flanges/transport lines/filters/screens in natural gas/fuel oil/diesel oil/ammonia/lube oil/gasoline service, (ii) vehicle/mobile equipment that may involve small VOC emissions such as oil changes/transmission service/hydraulic system service.

⁵ Includes, but is not limited to: management by vacuum truck/dewatering of materials in open pits/ponds/sumps/tanks/other closed or open vessels, and water based washing. Materials removed by vacuum truck include water and sediment mixtures containing miscellaneous VOCs such as diesel, lube oil, and other waste oils.

Permit Numbers 1388 and PSDTX631M1

Attachment B

Non Inherently Low Emitting Maintenance Activities (non-ILEs)						
Planned Maintenance Activity	EPN	Emissions				
		NO _x	CO	VOC	PM	SO ₂
Gaseous Fuel Venting ⁶	MSS-FUG			X		
Combustion optimization ⁷	HS-1	X	X	X	X	X
Vacuum truck solids loading ⁸	MSS-FUG				X	
Vacuum truck solids unloading	MSS-FUG				X	
PM control device - unit online	HS-1				X	
Use of fans during maintenance - unit offline	HS-1				X	

Date: February 13, 2014

⁶ Includes, but is not limited to: venting prior to pipeline pigging and meter proving.

⁷ Includes, but is not limited to: leak/operability checks, troubleshooting, and seasonal tuning.

⁸ Includes, but is not limited to: site-wide solids (ash) vacuuming operations (e.g. material handling baghouses/ ESP/ ducts/furnace/loop seals/stripper coolers/airlocks).

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 1388 and PSDTX631M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
HS-1	Harrington Station Unit No. 1 369 MW Coal-Fired Electric Generating Unit (5)	SO ₂	4,293	15,080
		CO	1,634	5,247
		NO _x	1,452	3,975
		PM	359	1,257
		PM ₁₀	359	1,257
		PM _{2.5}	322	1,128
		VOC	13.3	58.3
		Fluoride (as HF)	19	67.8
		Hydrogen Chloride	10.4	45.6
		Beryllium	0.0111	0.04
HS-2	Harrington Station Unit No. 1 Fly Ash Bin Vent Baghouse	PM	0.17	0.76
		PM ₁₀	0.08	0.36
		PM _{2.5}	0.01	0.05
HS-2A	Ash Handling System Pump A Discharge	PM	0.08	0.36
		PM ₁₀	0.08	0.36
		PM _{2.5}	0.04	0.19
HS-2B	Ash Handling System Pump B Discharge	PM	0.08	0.36
		PM ₁₀	0.08	0.36
		PM _{2.5}	0.04	0.19

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSS-FUG	Maintenance, Startup, and Shutdown (MSS) Fugitives	SO ₂	<0.01	<0.01
		NO _x	<0.01	<0.01
		PM	7.39	4.95
		PM ₁₀	1.91	1.19
		PM _{2.5}	0.29	0.18
		VOC	33.50	0.42

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code (TAC) § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - particulate matter emissions, as defined in Title 30 TAC § 101.1, including PM₁₀ and PM_{2.5}
 PM₁₀ - particulate matter emissions equal to or less than 10 microns in diameter, including PM_{2.5}
 PM_{2.5} - direct particulate matter emissions equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 HF - hydrogen fluoride
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) The lbs/hour and tpy emission limits specified in the MAERT for this facility include emissions from the facility during both normal operations and planned MSS activities.

Date: February 13, 2014

Special Conditions

Permit Numbers 5129 and PSDTX017M2

Emission Standards and Fuel Specifications

1. Compliance with the annual emissions limits, as specified in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," is based on a consecutive 12-month period rather than the calendar year.
2. A copy of this permit shall be kept at the plant site and made immediately available at the request of personnel from the Texas Commission on Environmental Quality (TCEQ) or any air pollution control agency. In addition, the holder of this permit shall identify all equipment at the property with the potential of emitting air contaminants that is authorized under this permit. Permitted emission points shall be identified by the emission point numbering on the maximum allowable emission rates table (MAERT).
3. Fuels to be fired in the Unit 2 and Unit 3 Boilers are limited to:
 - A. Coal or mixtures of coals with a maximum as-fired sulfur content of 0.6 lb/MMBtu.
 - B. Pipeline-quality natural gas with a maximum sulfur content of 20 grains of total sulfur per 100 dry standard cubic feet.
 - C. The use of any other fuel shall require authorization from the TCEQ. **(10/08)**
4. The firing rate of the Unit 2 and 3 Boilers (Emission Point Nos. 2-1 and 3-1) shall be limited to 3,830 and 3,870 MMBtu/hr, respectively, on an hourly average. **(10/08)**
5. As represented by the applicant, the following work and design practices will be maintained:
 - A. During fly ash unloading, the truck drop points will be enclosed by a shroud with the displaced air routed back into the silo.
 - B. The vacuum pump will be preceded by a baghouse and an in-line cartridge filter. The vacuum pump will be equipped with a water jacket.
 - C. The bin vent on the fly ash silo will be equipped with a reverse pulse jet cleaning system.
6. The records required in Special Condition Nos. 8 and 9 shall constitute the method of demonstrating compliance with the limits specified in this permit.

Federal Regulation Applicability

7. The Unit Nos. 2 and 3 Boilers shall comply with all applicable requirements of Subparts A, D, and Y of Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) and with the applicable requirements of 40 CFR Part 75. If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit condition shall govern and be the standard by which compliance shall be demonstrated. **(PSD) (10/08)**

Determination Of Compliance With CO Emissions

8. The holder of this permit shall perform stack sampling to establish the actual mass quantities of carbon monoxide (CO) being emitted into the atmosphere from Emission Point No. (EPN) 2-1. Sampling shall be conducted by appropriate procedures in accordance with the appropriate EPA Methods 10, 10B, or by other method approved by the Regional Director of the applicable TCEQ Regional Office. This stack sampling shall occur within six (6) months of the return to routine operations following completion of the project authorized by amendment approved October, 2008. The TCEQ Regional Office shall be notified within 15 days prior to the sampling and will be given the opportunity to observe the sampling procedure. This sampling must be performed at the permit holder's expense and results reported within 30 days to the TCEQ Region 1 Office. **(10/08)**

Recordkeeping Requirements

9. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ or any air pollution control agency with jurisdiction. **(03/07)**
 - A. A copy of this permit.
 - B. Permit renewal application dated November 10, 2006.
 - C. Stack sampling results or other testing conducted on units authorized under this permit after the date of issuance of this renewal.

- D. The permit holder shall keep records to identify: periods of planned maintenance, startup and shutdown (MSS); the opacity measured by the continuous opacity monitoring system (COMS) for the duration of the planned MSS activities; and that the work practices in Special Condition Nos. 12 through 15 are followed during the planned MSS activities. **(05/12)**
10. The following records shall be maintained at the plant site by the holder of this permit, and data shall be retained for at least five years following the date the data is obtained.
- A. Records of the hours of operation;
 - B. Records of weekly coal Btu testing;
 - C. Records of monthly gas Btu testing;
 - D. Records of hourly electrical generation; and
 - E. Records of monthly fuel use by fuel type.

Maintenance, Startup, and Shutdown (MSS)

- 11. This permit authorizes the emissions from the MSS activities listed in Attachment A, Attachment B, and the MAERT attached to this permit. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the planned maintenance activities that are non-ILE planned maintenance activities that this permit authorizes to be performed. **(05/12)**
- 12. When a planned maintenance activity identified in Attachment B is associated with a volatile organic compound (VOC) liquid storage facility and may result in VOC emissions from that facility, the permit holder shall not open that facility to the atmosphere in connection with the maintenance activity until the VOC liquids are removed from that facility to the maximum extent practicable. **(05/12)**
- 13. No vacuum pump on a vacuum truck that is used to move solids (such as ash) during planned maintenance activities shall be operated unless the vacuum system exhaust is routed to a filtering system. **(05/12)**

14. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility. **(05/12)**
15. Emissions during planned startup and shutdown activities will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows: **(05/12)**
 - A. A planned startup of either of the two electric generating facilities (EGF) with EPNs 2-1 or 3-1 is defined as the period that begins when a set of fans are placed into service and ends when the unit reaches a sustained load of more than 150 Megawatts. In the event that the fans are already running for maintenance purposes as allowed in Attachment A, startup begins when main gas firing has commenced.
 - (1) A planned startup of either EGF shall not exceed 48 hours after main gas firing has commenced, except as allowed in Special Condition No. 15A(2).
 - (2) An extended planned startup is defined as a startup that lasts more than 48 hours after main gas firing has commenced. The total amount of time the extended startups exceed 48 hours at each boiler shall not exceed a combined total of 600 hours for both solid fuel fired boilers at the facility on an annual basis.
 - B. A planned shutdown of either EGF with EPNs 2-1 or 3-1 shall not exceed 36 hours and is defined as:
 - (1) the period that begins when the generator breaker is opened and ends when the main fuel is no longer being fired in the boiler; or
 - (2) the period that begins when the main fuel is no longer being fired in the boiler and ends when the generator breaker is opened.
16. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit may be demonstrated as follows. **(05/12)**
 - A. For each pollutant emitted during ILE planned maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all ILE planned

maintenance activities (See Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.

- B. For each pollutant emitted during non-ILE planned maintenance activities (See Attachment B) the permit holder shall do the following for each calendar month.
 - (1) Determine the total emissions of the pollutant from such non-ILE planned maintenance activities in accordance with Special Condition No. 17.
 - (2) Once monthly emissions have been determined in accordance with Special Condition No 16B(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the sum of the rolling 12-month emissions for the pollutant for all non-ILE planned maintenance activities to the annual emissions limit for the pollutant in the MAERT.
 - (3) This excludes the emissions associated with the combustion unit tuning/optimization activities, which are included in the normal operation limits for EPN 2-1 and 3-1 as listed in the MAERT.
- 17. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 16 as follows. **(05/12)**
 - A. For each pollutant whose emissions during normal facility operations are measured with a CEMS that has been certified to measure the pollutant's emissions over the entire range of a planned MSS activity, the permit holder shall measure the emissions of the pollutant during the planned MSS activity using the CEMS.
 - B. For each pollutant not described in Special Condition No. 17A, the permit holder shall calculate the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods

described in paragraphs 1 through 3 below, provided that the permit holder maintains appropriate records supporting such determination:

- (1) Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.
 - (2) Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
 - (3) Use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
18. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until November 21, 2012. **(05/12)**

Date: May 21, 2012

ATTACHMENT A
Permit Numbers 5129 and PSDTX017M2
Inherently Low Emitting (ILE) Planned Maintenance Activities

Planned Maintenance Activity	Emissions				
	VOC	NO _x	CO	PM	SO ₂
Miscellaneous particulate filter maintenance ¹				X	
Degassing for maintenance of storage vessels storing material with vapor pressure <0.5 psia	X				
Boiler general maintenance ²				X	
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, CEMS, and PEMS.	X	X			X
Material handling system maintenance ³				X	
Small equipment and fugitive component repair/replacement in VOC service ⁴	X				
PM control device maintenance – unit offline				X	
Use of fans during maintenance - unit offline				X	

Notes for Attachment A:

1. Includes, but is not limited to, baghouse filters, coal handling filters, and combustion turbine air intake filters. Includes operation of baghouse ventilation duct fans with boiler offline.
2. Includes pre-heater basket handling and maintenance, refractory change-out, fan maintenance and balancing, damper, air heater, and soot blower maintenance, and any other general boiler maintenance that does not exceed the worst-case emissions representation in the application.
3. Material handling system equipment includes, but is not limited to, silos, transport systems, coal bunkers, coal crushing equipment, coal handling, nuvafeders, hoppers, and sludge handling system. Materials handled include coal, ash, limestone, soda ash, and lime.
4. Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, lube oil, and gasoline service, and (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service.

Dated May 21, 2012

aATTACHMENT B
Permit Numbers 5129 and PSDTX017M2
Non-ILE Planned Maintenance Activities

Planned Maintenance Activity	EPN	Emissions				
		VOC	NO _x	CO	PM	SO ₂
Gaseous fuel venting ¹	MSS-FUG2	x				
Combustion optimization ²	2-1 and 3-1	x	x	x	x	x
Vacuum truck solids loading ³	MSS-FUG2				x	
Vacuum truck solids unloading	MSS-FUG2				x	
Degassing for maintenance of storage vessels storing gasoline or other material with vapor pressure >0.5 psia that requires clearing of the vessels to allow for entry of personnel	MSS-FUG2	x				
PM control device maintenance – unit online	2-1 and 3-1				x	

Notes for Attachment B:

1. Includes, but is not limited to, venting prior to pipeline pigging, and meter proving.
2. Includes, but is not limited to, (i) leak and operability checks (e.g., turbine over-speed tests, troubleshooting), and (ii) tuning activities that occur during seasonal tuning or after the completion of initial construction, a combustor change-out, a major repair, maintenance to a combustor, or other similar circumstances.
3. Includes site-wide ash vacuuming operations (e.g., baghouse, ESP, ducts, furnace, loop seals, stripper coolers, and airlocks).

Date: May 21, 2012

Emission Sources - Maximum Allowable Emission Rates

Permit Number 5129 and PSDTX017M2

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
2-1	Unit 2 Boiler Stack (6)	NO _x	1,341.00	3,774.0
		CO	1,915.00	5,033.0
		VOC	14.00	56.0
		SO ₂	4,602.00	18,946.0
		PM ₁₀	383.00	1,579.0
2-2	Unit 2 Ash Handling System Bin Vent	PM ₁₀	0.50	2.2
2-2A	Unit 2 Ash Handling System Pump A Discharge	PM ₁₀	0.046	0.2
2-2B	Unit 2 Ash Handling System Pump B Discharge	PM ₁₀	0.046	0.2
3-1	Unit 3 Boiler Stack (6)	NO _x	1,161.00	5,085.0
		CO	581.00	2,543.0
		VOC	55.00	241.0
		SO ₂	4,151.00	18,181.0
		PM ₁₀	347.00	1,520.0
3-2	Fly Ash Silo Bin Vent	PM ₁₀	0.34	1.5
3-2A	Unit No. 3 Vacuum Pump Discharge	PM ₁₀	0.01	0.04

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSS-FUG2	MSS Fugitives (5)	SO ₂	<0.01	<0.01
		NO _x	<0.01	<0.01
		VOC	39.00	0.79
		PM	8.51	4.97
		PM ₁₀	2.45	1.20
		PM _{2.5}	0.37	0.18

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (based on AP-42, "Tables 1.1-2 and 1.1-11")
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The lb/hr and tpy emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities. **(05/12)**

Date: May 21, 2012